

## Datasheet: MCA1744PE

<b>Description:</b>	MOUSE ANTI HUMAN CD66e:RPE
<b>Specificity:</b>	CD66e
<b>Other names:</b>	CEA
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C365D3 (NCRC23)
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

### Reconstitution

Reconstitute with 1.0 ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

<b>Preservative</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% bovine serum albumin 5% sucrose
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P06731</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">1048</a> CEACAM5 <a href="#">Related reagents</a>
<b>Synonyms</b>	CEA
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3NSI myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human CD66e antibody, clone C365D3 (NCRC23)</b> recognizes human Carcinoembryonic antigen-related cell adhesion molecule 5, also known as CD66e, carcinoembryonic antigen, Meconium antigen 100, CEA or CEACAM5. CD66e is a 702 amino acid ~77 kDa GPI anchored membrane protein containing 7 <a href="#">Ig-like domains</a> . Mouse anti Human CD66e antibody, clone C365D3 does not cross-react with normal cross-reacting antigen (CD66c), or with biliary glycoprotein 1 (CD66a) as indicated by binding assays ( <a href="#">Price 1988</a> , note: in this study Mouse anti Human CD66e antibody, clone C365D3 is designated as clone 6 (from author)).
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Seth, J. <i>et al.</i> (1988) Carcinoembryonic antigen. <a href="#">Lancet. 1 (8599): 1399.</a></li> <li>2. Chao, A. <i>et al.</i> (2006) Molecular characterization of adenocarcinoma and squamous carcinoma of the uterine cervix using microarray analysis of gene expression. <a href="#">Int J Cancer. 119: 91-8.</a></li> <li>3. Stern-Ginossar, N. <i>et al.</i> (2007) Intercellular transfer of carcinoembryonic antigen from tumor cells to NK cells. <a href="#">J Immunol. 179 (7): 4424-34.</a></li> <li>4. Kalinina, T. <i>et al.</i> (2010) Establishment and characterization of a new human pancreatic adenocarcinoma cell line with high metastatic potential to the lung. <a href="#">BMC Cancer.10: 295.</a></li> <li>5. Soucek, K. <i>et al.</i> (2010) Fetal colon cell line FHC exhibits tumorigenic phenotype, complex karyotype, and TP53 gene mutation. <a href="#">Cancer Genet Cytogenet. 197: 107-16.</a></li> <li>6. Ferro, F. <i>et al.</i> (2011) Adipose tissue-derived stem cell in vitro differentiation in a three-dimensional dental bud structure. <a href="#">Am J Pathol.178: 2299-310.</a></li> <li>7. Dallas, M.R. <i>et al.</i> (2012) Divergent roles of CD44 and carcinoembryonic antigen in colon cancer metastasis. <a href="#">FASEB J. 226: 2648-56.</a></li> <li>8. Domenis, R. <i>et al.</i> (2015) Adipose tissue derived stem cells: in vitro and in vivo analysis of a standard and three commercially available cell-assisted lipotransfer techniques. <a href="#">Stem Cell Res Ther. 6: 2.</a></li> <li>9. Wicklein, D. <i>et al.</i> (2018) CEACAM1 promotes melanoma metastasis and is involved in the regulation of the EMT associated gene network in melanoma cells. <a href="#">Sci Rep. 8 (1): 11893.</a></li> <li>10. Caponnetto, F. <i>et al.</i> (2020) Human Adipose-Derived Stem Cells in Madelung's</li> </ol>

<b>Storage</b>	<p>This product is shipped at ambient temperature.</p> <p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #20487 available at:</p> <p><a href="https://www.bio-rad-antibodies.com/SDS/MCA1744PE">https://www.bio-rad-antibodies.com/SDS/MCA1744PE</a></p> <p>20487</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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